



OIPE



RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/037,860

DATE: 01/19/2002 TIME: 10:55:53

RECEIVED

APR 0 1 2002

TECH CENTER 1600/29008

Input Set : A:\2581.1004-004 Sequence Listing.txt

Output Set: N:\CRF3\01192002\J037860.raw

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TECH CENTER 1600/2900

ENTERED

19

4 <110> APPLICANT: Jerome B. Posner

Josep O. Dalmau

Myrna R. Rosenfeld

8 <120> TITLE OF INVENTION: Ma FAMILY POLYPEPTIDES AND ANTI-Ma

ANTIBODIES

11 <130> FILE REFERENCE: 2581.1004-004

C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/037,860

C--> 13 <141> CURRENT FILING DATE: 2001-01-04

13 <150> PRIOR APPLICATION NUMBER: 09/189,527

14 <151> PRIOR FILING DATE: 1998-11-10

16 <160> NUMBER OF SEQ ID NOS: 14

18 <170> SOFTWARE: FastSEQ for Windows Version 4.0

20 <210> SEQ ID NO: 1

21 <211> LENGTH: 18

22 <212> TYPE: DNA

23 <213> ORGANISM: homo sapiens

25 <400> SEQUENCE: 1

26 gaaacccaag gacacggg

28 <210> SEQ ID NO: 2

29 <211> LENGTH: 19

30 <212> TYPE: DNA

31 <213> ORGANISM: homo sapiens

33 <400> SEQUENCE: 2

34 gtotttgogg atgtocacg

36 <210> SEQ ID NO: 3

37 <211> LENGTH: 2139

38 <212> TYPE: DNA

39 <213> ORGANISM: homo sapiens

41 <220> FEATURE:

42 <221> NAME/KEY: CDS

43 <222> LOCATION: (272)...(1258)

45 <221> NAME/KEY: misc_feature

46 <222> LOCATION: (1)...(2139)

47 <223> OTHER INFORMATION: n = A, T, C or G

49 <221> NAME/KEY: misc_feature

50 <222> LOCATION: 1699

51 <223> OTHER INFORMATION: n = A, T, C or G

53 <400> SEQUENCE: 3

54 egaggagega eggeeggaee eagaeeeaga egeaagatgg egaeggeege gtgaetgeet 60

55 cagcgtcccc gagctcggct ccgagtgcac ctacggactg actgtggggg cagagaaggg 120

56 cgagatcagg actetytett tyttaategt gaetgeatga aggtegeete eetegggeet 180

57 acttggtggg agtgtctggt attgttctaa ggccaggagc acggtgagcc acagtctgtt 240

58 ggtagaattt ggcgtcttga tagttgagaa a atg gcg atg aca ctg ttg gaa

Input Set : A:\2581.1004-004 Sequence Listing.txt Output Set: N:\CRF3\01192002\J037860.raw

| 5.9 6.0 | | | | M | Met Ala M | Met Thr I | Leu Leu C | Glu |
|--------------------------|---------|-------------|---------|----------------|-----------|-------------|------------|-----------|
| 60 62 gac tgg | tac caa | aga ato | r gat g | tg aac | tee cag | aga act | cto tta | gtc 340 |
| 63 Asp Trp | | | | | | | | |
| 64 | 10 | 1 | = | 15 | | 20 | | |
| 66 tag ago | atc cca | gtg aad | tgt g | at gag | gct gaa | atc gaa | gag acc | ctc 388 |
| 67 Trp Gly | Ile Pro | Val Asr | r Cys Á | sp Glu | Ala Glu | Ile Glu | Glu Thr | Leu |
| 68 25 | | | 30 | | | 35 | | |
| 70 cag gct | gcg atg | ccc cag | gtc t | cc tac | cga atg | ctt ggg | aga atg | ttc 436 |
| 71 Gln Ala | Ala Met | Pro Glr | val S | er Tyr | Arg Met | Leu Gly | Arg Met | |
| 72 40 | | 4.5 | | | 50 | | | 55 |
| 74 tgg agg | | | | | | | | |
| 75 Trp Arg | Glu Glu | | Lys A | la Ala | | Glu Leu | _ | Ala |
| 76 | | 60 | | | 65 | | 70 | -+- 522 |
| 78 gta gat | | | | | | | | |
| 79 Val Asp | | Ala IIE | e Pro A | | met Pro | GIY LYS | 85 | val |
| 80 | 75 | +++ >> | | 80 aa aat | tat ast | got gaa | ~ ~ | gaa 580 |
| 82 tgg aaa 83 Trp Lys | | _ | | | | | | , |
| 84 | 90 | riie Lys | | 95 | ser usb | 100 | rne bed | Olu |
| 86 aga ttg | | ttc cta | | | aaa taa | | caa gat | gtt 628 |
| 87 Arg Leu | | | | | | | | , |
| 88 105 | | ine bee | 110 | -, | 0-1 F | 115 | · | |
| 90 gcc cgt | gtc ctt | ggg ttt | caq a | ac cct | act ccg | acc ccg | ggc cca | gag 676 |
| 91 Ala Arg | | | | | | | | |
| 92 120 | | 125 | | | 130 | | _ | 135 |
| 94 atg cca | gca gag | atg cta | aac t | at att | ttg gat | aat gtt | att cag | cct 724 |
| 95 Met Pro | Ala Glu | Met Leu | Asn T | yr Ile | Leu Asp | Asn Val | Ile Gln | Pro |
| 96 | | 140 | | | 145 | | 150 | |
| 98 ctt gtt | | | | | | | | |
| 99 Leu Val | | _ | Tyr L | | | Leu Phe | | Lys |
| 100 | 15 | | | 160 | | | 165 | 000 |
| 102 gga cat | | | | | | | | |
| 103 Gly His | 170 Ar | g Ala Ti | | GIY ASN 175 | ne Asp | 180 Pro 114 | | l HIS |
| 104 106 act aat | | c cta da | | | ata teo | | | ragg 868 |
| 100 acc aac | | | | | | | | |
| 108 185 | | I Lea Gi | 190 | TIP GIN | vai oci | 195 | . Old hije | , 1119 |
| 110 cgg cgg | | or orace ac | | aga ggc | ccc ac | | att att | . cgc 916 |
| 111 Arg Arg | | | | | | | | |
| 112 200 | | 20 | | , , | 210 | | | 215 |
| 114 atc ctt | aag to | c aac aa | c ccc | gcg ata | acc act | gee gaa | i tgc ctg | gaag 964 |
| 115 Ile Leu | | | | | | | | |
| 116 | | 220 | | | 225 | | 230 |) |
| 118 gcg ctt | | | | | | | | |
| 119 Ala Leu | Glu Gl | n Val Ph | e Gly | | | ser Arg | | Gln |
| 120 | 23 | | | 240 | | | 245 | |
| 122 atc aaa | | | | | | | | |
| 123 Ile Lys | Phe Le | u Asn Th | r Tyr (| Gln Asn | Pro Gly | g Glu Lys | Leu Ser | Ala |

Input Set : $A:\2581.1004-004$ Sequence Listing.txt

Output Set: N:\CRF3\01192002\J037860.raw

| | | Ou | cpuc | Jec. | 14. | CRES | (011 | <i>5</i> 200. | 2 \00. | 3 / 00 (| J.Ia | ~ | | | |
|-----|----------|---------|-------|-------|-------|-------|-------|---------------|--------|----------|-------|-----------|-------|--------|------|
| 124 | | 250 | | | | 255 | | | | | 260 | | | | |
| | tat gtc | | t ata | man | aat | | cta | car | aan | ata | | gag | aad | aaa | 1108 |
| | Tyr Val | | | | | | | | | | | | | | 1100 |
| 128 | • | ite Ai | y Leu | GIU | 270 | Leu | Leu | GIII | гуз | 275 | vai | 'JI'U | гуз | Gry | |
| | gcc att | ant 22 | ~-+ | 3 3 ± | | 220 | 020 | 700 | 000 | | ana | .3.2.0° | ata | a + + | 1156 |
| | | | | | | | | | | | | | | | 1130 |
| | Ala Ile | ASP Ly | s asp | | Val | ASII | GIII | Ald | - | Leu | Gru | 11 ـ لـ ت | val | | |
| | 280 | | | 285 | | | | | 290 | | | 4 | | 295 | 1001 |
| | gee ggg | | | | | | | | | | | | | | 1204 |
| | Ala Gly | Ala As | | | GLY | Ala | He | | Arg | Gln | Leu | Trp | | Thr | |
| 136 | | | 300 | | | | | 305 | | | | | 310 | | 3050 |
| | ggg gct | | | | | | | | | | | | | | 1252 |
| | Gly Ala | | | Pro | Gly | Pro | | Pro | Leu | Ser | Val | | Gly | Ala | |
| 140 | | 31 | | | | | 320 | | | | | 325 | | | |
| 14. | gat ccg | tgagga | ggaa | gccc | aggga | ag ga | agga | ggag | gag | getga | aggc | cac | cctt | ctg | 1308 |
| | Asp Pro | | | | | | | | | | | | | | |
| | cagttagg | | | | | | - | | | _ | | | | | |
| | atcacage | | | _ | _ | | | | - | | | | | | |
| 148 | cttagcct | tg ttc | tgttt | tg t | tgtti | ttttg | g ga | gggga | aagg | ttag | gtca | ggc | ctgag | gtattc | 1488 |
| | atgtaaca | | | | _ | | | | _ | - | | - | | | |
| | tgctggct | | | | | | | | | | | | | | |
| 151 | teatggae | at cat | aatca | gt to | gtgaa | aaaa | c acc | gcgaa | acct | atga | acac | ttc | ttati | tccaca | 1668 |
| 152 | ctgaatgt | ga aat | tgcat | gt to | cagat | tgttt | t nac | ctac | gagg | cct | ggct | cac | aggaa | agtgtt | 1728 |
| 153 | cagtaaaa | gt atg | cactg | tt a | gatta | actga | a taa | acgc | ggat | agat | tttt | tgt | ttaco | cataaa | 1788 |
| 154 | ttgttcca | ga ttt | atatt | aa t | ggaa | ggaag | g tg | tgcat | tta | ttag | gctai | tta · | ctcaa | acttta | 1848 |
| 155 | caatgcaa | ac atc | ttatt | tc to | catci | tttaa | a aca | atgto | egae | cagt | ttaa | att 4 | gaaaa | agtatt | 1908 |
| 156 | ctgagact | gc aaa | atggg | gt gi | ttaaa | aaaat | act | tgcag | jtta | cgga | agct | gtg | taaad | ccagtt | 1968 |
| 157 | teteattg | ca taa | gatac | ag af | tgtaa | aatto | g cat | tggag | gagg | ttga | atate | gca | cctgt | tacagt | 2028 |
| 158 | aattcact | cc ccc | atttc | ac ti | tctti | tgtca | a gaq | gaata | igtt | ctt | gttca | ata | ctgag | gtgttc | 2088 |
| 159 | taaatttg | aa gtt | atata | ta ca | aaati | taaaa | a tai | tttta | aaaa | aaaa | aaaa | aaa | g | | 2139 |
| 161 | <210> SE | Q ID N | 0:4 | | | | | | | | | | | | |
| 162 | <211> LE | NGTH: | 329 | | | | | | | | | | | | |
| 163 | <212> TY | PE: PR | Γ | | | | | | | | | | | | |
| 164 | <213> OR | GANISM | : hom | o sap | piens | 3 | | | | | | | | | |
| 166 | <400> SE | QUENCE | : 4 | | | | | | | | | | | | |
| 167 | Met Ala | Met Th | r Leu | Leu | Glu | Asp | Trp | Cys | Arg | Gly | Met | Asp | Val | Asn | |
| 168 | 1 | | 5 | | | | | 10 | | | | | 15 | | |
| 169 | Ser Gln | Arg Th | r Leu | Leu | Val | Trp | Gly | Ile | Pro | Val | Asn | Cys | Asp | Glu | |
| 170 | | 20 | | | | | 25 | | | | | 30 | | | |
| 171 | Ala Glu | Ile Gl | ı Glu | Thr | Leu | Gln | Ala | Ala | Met | Pro | Gln | Val | Ser | Tyr | |
| 172 | | 35 | | | | 40 | | | | | 45 | | | | |
| 173 | Arg Met | Leu Gly | y Arg | Met | Phe | Trp | Arg | Glu | Glu | Asn | Ala | Lys | Ala | Ala | |
| 174 | 50 | | _ | | 55 | - | - | | | 60 | | - | | | |
| 175 | Leu Leu | Glu Lei | ı Thr | Gly | Ala | Val | Asp | Tyr | Ala | Ala | Ile | Pro | Arg | Glu | |
| 176 | | | | 70 | | | - | · | 75 | | | | _ | 80 | |
| 177 | Met Pro | Gly Ly: | s Gly | Gly | Val | Trp | Lys | Val | Leu | Phe | Lys | Pro | Pro | Thr | |
| 178 | | - • | 85 | - | | ~ | , | 90 | | | | | 95 | | |
| 179 | Ser Asp | Ala Glu | ı Phe | Leu | Glu | Arg | Leu | His | Leu | Phe | Leu | Ala | Arg | Glu | |
| 180 | - | 100 | | | | - | 105 | | | | | 110 | - | | |
| 181 | Gly Trp | Thr Val | L Gln | Asp | Val | Ala | Arg | Val | Leu | Gly | Phe | Gln | Asn | Pro | |
| | - • | | | - | | | - | | | - | | | | | |



Input Set : A:\2581.1004-004 Sequence Listing.txt Output Set: N:\CRF3\01192002\J037860.raw

| 182 | | | 115 | | | | | 120 | | | | | 125 | | | | |
|-----|---------------------|-----------|----------|--------|--------|---------------------|--------------|-------|-------|------------------|------|-------|-------|------------|-------|-------|-----|
| | Thr | Pro | | Pro | Glv | Pro | Glu | | Pro | Ala | Glu | Met | Leu | Asn | Tyr | Ile | |
| 184 | • • • • | 130 | | | 1 | | 135 | | | | | 140 | | | • | | |
| | [. ₊ ⊇11 | | Asn | Val | Ile | Gln | | Leu | Val | Glu | Ser | Ile | Trp | Tyr | Lys | Arg | |
| | 145 | L | | | | 150 | | | | | 155 | | • | - | - | 160 | |
| | | Thr | Len | Phe | Ser | | Lvs | Glv | His | Pro | Arq | Ala | Trp | Arg | Gly | Asn | |
| 188 | 2.54 | | 200 | | 165 | 1 | -1- | | | 170 | , | | | | 175 | | |
| | Phe | Asp | Pro | Trp | | Glu | His | Thr | Asn | | Val | Leu | Glu | Glu | Trp | Gln | |
| 190 | 1 110. | ot | | 180 | | | | | 185 | | | | | 190 | ٠ | | |
| | Val | Ser | Asn | | Glu | Lvs | Ara | Ara | | Leu | Met | Glu | Ser | Leu | Ara | Glv | |
| 192 | 10.1 | DCI | 195 | , 41 | 3 L u | | 9 | 200 | 9 | 204 | ••• | 01- | 205 | | 5 | 1 | |
| | Pro | Δla | | Asn | V.a l | Tle | Ara | | Len | Lvs | Ser | Asn | | Pro | Ala | He | |
| 194 | FLO | 210 | Alu | пэр | V U.I. | 110 | 215 | 110 | Lea | L _I S | 001 | 220 | | | | 2.20 | |
| | Thr | | λla | Glo | 0776 | Γ - - 11 | | Δla | T.eu | Glu | Gln | | Phe | Gly | Ser | Val | |
| | 225 | 1111 | ALG | GIU | - y 3 | 230 | Lys | niu | LCu | Olu | 235 | , 41 | 1 110 | 311 | 001 | 240 | |
| | | Cor | cor | λra | Aan | | Gln | τlο | Luc | Dhe | | Δsn | Thr | Tyr | Gln | | |
| | Gru | Ser | 261 | Arg | 245 | мта | GIII | 116 | пуз | 250 | Бец | nou | 1111 | тут | 255 | 71511 | |
| 198 | Disco | 21 | c1 | Ta | | Con | λla | Птт | Wa 1 | | λνα | Lou | Clu | Pro | | Гди | |
| | Pro | GIY | GIU | 260 | Leu | ser | нта | тут | 265 | ite | AIG | Leu | GIU | 270 | пец | пец | |
| 200 | <i>a</i> 1. | T | 1757 | | .21 | F 110 | C1. | ۸۱۵ | | Nan | Lvc | Λαn | λan | Val | Λen | (21 n | |
| | G L.II | гуѕ | 275 | Val | ULLU | ьуѕ | СТУ | 280 | 116 | АЅР | Lys | изр | 285 | val | ASII | GIII | |
| 202 | 7 1 - | A war | | C1 | aln | Wa I | т1о | | C1 17 | λla | λcn | Uic | | Gly | Δla | Tle | |
| | Ald | - | ьеи | GIU | (3 LH | val | 295 | нта | GTA | ніа | ASII | 300 | 261 | GLY | ліц | 110 | |
| 204 | A 200 | 290 | Cln | Lou | IT nn | Lon | | C157 | λ1э | Cly | Clu | | Dro | Gly | Dro | Larg | |
| | | Arg | GIII | ьeu | тър | 310 | 1111 | СТУ | на | GLY | 315 | СТУ | FIU | эту | 110 | 320 | |
| | 305 | т о | Con | 17.2.1 | A 1 a | Gly | 7.1 a | λan | Dro | | 213 | | | | | 320 | |
| | PLO | Leu | 261 | Val | 325 | эту | Ата | АЗР | FIO | | | | | | | | |
| 208 | z51 <i>(</i> |) s . C.I | 70 TI | NO. | | | | | | | | | | | | | |
| | | | |) NO | | | | | | | | | | | | | |
| | | | | H: 18 |) | | | | | | | | | | | | |
| | <21.2 | | | | home | | nion | , | | | | | | | | | |
| | | | | | | o sap | oren: | • | | | | | | | | | |
| | | | | NCE: | | | | | | | | | | | | | 18 |
| | | | | gagad | | | | | | | | | | | | | 10 |
| | | | | NO NO | | | | | | | | | | | | | |
| | | | | 1: 6: | LJ | | | | | | | | | | | | |
| | <212 | | | | home | | oi on | ~ | | | | | | | | | |
| | | | | | пош | sap | ren | > | | | | | | | | | |
| | <220 | | | | and | | | | | | | | | | | | |
| | | | | KEY: | | , : | :05\ | | | | | | | | | | |
| | | | | | | (: | 1001 | | | | | | | | | | |
| | | | | NCE: | | | a 2 a | t a a | + 00 | 200 | 2+2 | 2 + A | a a t | ata | a a t | aaa | 48 |
| | | | | | | | | | | | | | | gtg Val | | | 40 |
| | | Leu | Ald | Leu | | GIU | АЅР | тър | Cys | 10 | 116 | мес | 261 | V CL.L | 15 | Giu | |
| 231 | 1 | | . | ~+~ | 5 | +- t- | 200 | ~~~ | 2+2 | | aaa | ~ ~ ~ | +++ | a 2 a | | act | 96 |
| | | | | | | | | | | | | | | gag | | | 30 |
| | GIN | ьys | ser | | мес | ٧dl | 1111 | стА | | PIO | HId | АБР | rne | Glu 30 | GIU | Ата | |
| 235 | | ~ 4.4 | | 20 | ~+~ | a++ | ~~~ | ~~~ | 25 | ++~ | 226 | t at | at a | | 200 | tat | 144 |
| | | | | | | | | | | | | | | ggc | | | 144 |
| 238 | GIII | тте | GID | GIU | val | Leu | GIU | GIU | T.HT. | ьeu | гуѕ | ser | Leu | Gly | ALG | тАт | |

Input Set : A:\2581.1004-004 Sequence Listing.txt

Output Set: N:\CRF3\01192002\J037860.raw

| 3.0 | | | 2.5 | | | | | 4.0 | | | | | 4 5 | | | | |
|------------|----------|---------|-------|-------|----------|-------|-------|-------|-------|------------|-------|-------|------|--------|------|-------|-----|
| 39 | | | 35 | | | | | 40 | 222 | | ~~~ | 22+ | 45 | 2.2.t | aat | at a | 192 |
| | | | | | | | | | | cag | | | | | | | 192 |
| | Arg | | Leu | эΤХ | Lys | rre | 55 | Arg | LуS | Gln | GIU | 60 | Ald | ASII | ніа | vaı. | |
| 243 | | 50 | ~~~ | ~++ | a+~ | ~ ~ ~ | | 2.0± | ~ > + | ata | ± 0.0 | | 2++ | 000 | aurt | a a a | 240 |
| | | | | | | | | | | gtc Val | | | | | | | 240 |
| | | Leu | GIU | Leu | Leu | 70 | ASP | 1111 | ASP | Val | 75 | ніа | 116 | PIO | 261 | 80 | |
| 247 | 65 | G2.G | 000 | 220 | aaa | | ata | taa | 222 | gtg | | +++ | aan | 3.00 | cet | | 288 |
| | | | | | | | | | | Val | | | | | | | 200 |
| 251 | Val | (3 T II | Gry | гуз | 85 | GTÀ | Val | пр | цуз | 90 | 116 | FIIC | цуз | 1111 | 95 | A311 | |
| | cad | a a c | act | gag | | ctt | gaa | aga | tta | aac | cta | +++ | cta | даа | | gag | 336 |
| | | | | | | | | | | Asn | | | | | | | 330 |
| 255 | יז ד די | изр | 1111 | 100 | TITC | ьса | OLU | 111 9 | 105 | 11511 | Lea | 1 110 | Lica | 110 | | 314 | |
| | ааа | cad | aca | | tca | aat | ato | +++ | | gcc | cta | aaa | caq | | aca | t.t.a | 384 |
| | | | | | | | | | | Ala | | | | | | | |
| 259 | 311 | 3111 | 115 | , 41 | 001 | 311 | | 120 | | | | 1 | 125 | | | | |
| | tet | cca | | aca | ata | ccc | tac | | t.ca | cca | gaa | tta | cta | acc | cat | ttq | 432 |
| | | | | | | | | | | Pro | | | | | | | |
| 263 | | 130 | | | | | 135 | | | | | 140 | | | | | |
| 265 | ttg | | caq | qca | atq | gca | cat | qcq | cct | cag | ccc | ctg | cta | ccc | atg | aga | 480 |
| | | | | | | | | | | Gln | | | | | | | |
| 267 | 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| 269 | tac | cgg | aaa | ctg | cga | gta | ttc | tca | ggg | agt | gct | gtc | cca | gcc | cca | gag | 528 |
| 270 | Tyr | Arg | Lys | Leu | Arg | Val | Phe | Ser | Gly | Ser | Ala | Val | Pro | Ala | Pro | Glu | |
| 271 | | | | | 165 | | | | | 170 | | | | | 175 | | |
| | | | | | | | | | | cag | | | | | | | 576 |
| 274 | Glu | Glu | Ser | Phe | Glu | Val | Trp | Leu | Glu | Gln | Ala | Thr | Glu | Ile | Val | Lys | |
| 275 | | | | 180 | | | | | 185 | | | | | 190 | | | |
| | | | | tgaa | acaca | aac o | caaaa | aaaa | aa aa | aaaa | aaaa | J | | | | | 615 |
| | Glu | Trp | | | | | | | | | | | | | | | |
| 279 | | _ | 195 | | _ | | | | | | | | | | | | |
| | | | EQ II | | | | | | | | | | | | | | |
| | | | ENGTE | | 35 | | | | | | | | | | | | |
| | | | YPE: | | L | | | _ | | | | | | | | | |
| | | | RGAN | | | o sar | piens | 3 | | | | | | | | | |
| | | | EQUE | | | C1.0 | Nan | Ten | Cric | Arg | Tlo | Mot | Cor | Val | Λcn | C111 | |
| | | Leu | Ald | Leu | Leu 5 | GIU | ASP | пр | Cys | 10 | 116 | Mec | ser | val | 15 | '31 u | |
| 289 | l Cln | Luc | Cor | Lou | - | V = 1 | Thr | Clv | т10 | Pro | λlа | Nen | Dha | al n | | Δla | |
| 291 | | | | | | | | | | FIO | | | | | GIU | AIU | |
| | | | | | | | | | | Leu | | | | | Arσ | Tvr | |
| 293 | GIU | 116 | 35 | Giu | Vai | ьеа | OIII | 40 | 1 111 | Lica | цуз | DCI | 45 | 13 ± 1 | 1119 | 111 | |
| | Ara | Len | | Glv | Lve | Tle | Phe | | Lvs | Gln | Glu | Asn | | Asn | Ala | Va1 | |
| 295 | 1119 | 50 | Leu | 0 ± 1 | _, _ | | 55 | 9 | 2,3 | <u> </u> | 014 | 60 | | | | | |
| | Leu | | Glu | Leu | Leu | Glu | | Thr | Asp | Val | Ser | | Ile | Pro | Ser | Glu | |
| 297 | | | | | | 70 | F | | - I. | | 75 | | | - | | 80 | |
| | | Gln | Gly | Lys | Gly | | Val | Trp | Lys | Val | | Phe | Lys | Thr | Pro | | |
| 299 | | | - 4 | | 85 | 4 | | | - | 90 | | | - | | 95 | | |
| | Gln | Asp | Thr | Glu | Phe | Leu | Glu | Arg | Leu | Asn | Leu | Phe | Leu | Glu | Lys | Glu | |
| | | • | | | | | | - | | | | | | | | | |

VERIFICATION SUMMARYDATE: 01/19/2002PATENT APPLICATION: US/10/037,860TIME: 10:55:54

Input Set : A:\2581.1004-004 Sequence Listing.txt

Output Set: N:\CRF3\01192002\J037860.raw

 $L:13\ M:270\ C:$ Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:152 M.341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 L:680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12